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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/017,202	12/14/2001 7590 10/01/2003	Barbara R. Evans	920976.90199	
QUARLES & BRADY LLP 411 E. WISCONSIN AVENUE SUITE 2040 MILWAUKEE, WI 53202-4497			EXAMINER	
			ALEJANDRO, RAYMOND	
			ART UNIT	PAPER NUMBER
			1745 DATE MAILED: 10/01/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/017,202	EVANS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Raymond Alejandro	1745				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 14 L	<u>December 2001</u> .					
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	Ex parte Quayre, 1955 C.D. 11, 4	500 O.G. 210.				
4) Claim(s) 1-20 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-20</u> are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				
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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-6, drawn to a fuel cell electrode, classified in class 502, subclass 100.
 - II. Claim 7, drawn to a method for recovering catalyst, classified in class 502, subclass 20.
 - III. Claims 8-11, drawn to an electrolyte membrane, classified in class 502, subclass4.
 - IV. Claims 12-16, drawn to a fuel cell per se, classified in class 429, subclass 42.
 - V. Claim 17-18, drawn to a method for impregnating bacterial cellulose, classified in class 502, subclass 7.
 - VI. Claims 19-20, drawn to a method for forming a fuel cell, classified in class 429, subclass 12.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process, for example, (as admitted by the applicants) by burning the support structure or by hydrolyzing the support structure.

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3. Inventions I and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, inventions I has separate utility such as providing a catalytic electrode while invention III has utility as a membrane feature. See MPEP § 806.05(d).

- 4. Inventions I or III and IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the fuel cell per se does not require the specific electrode (invention I) or the specific electrolyte membrane (invention III), in that, the fuel cell can operate with any synthetic polymeric material or metal-organic catalytic electrode, and with a polymer or solid oxide electrolyte. The subcombination has separate utility such as providing an electrode structure (invention I) and an membrane feature (invention III).
- 5. Inventions V and I or III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process, for example, (as admitted by the applicants) the products of the invention I or III can be made either by spontaneous precipitation of certain metals including palladium complex ion, by non-

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spontaneous precipitation of metals including platinum complex ions, or by metallic gold from hexachloroaurate compounds diffused in bacterial cellulose.

- 6. Inventions I or III and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, different functions, or different effects, for example, the electrode (invention I) is a catalytic electrode while the method is for forming a fuel cell which is a device capable of generating power; the electrolyte membrane (invention III) is a membrane feature while the method is for forming a fuel cell which is a device capable of generating power.
- 7. Inventions II and III, IV, V or VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, different functions, or different effects, for example, invention II is a method for recovering catalyst while inventions III, VI, V and VI are directed to an membrane feature per se, a fuel cell device capable of generating power, a method for impregnating bacterial cellulose with a metal and a method for forming a fuel cell itself, respectively.
- 8. Inventions IV and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, different functions, or different effects, for

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example, the fuel cell is a device for generating power while the method is for impregnating bacterial cellulose with a metal or to deposit metal in bacterial cellulose.

- 9. Inventions IV and VI are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process, for example, (as admitted by the applicants) the fuel cell can be made either by spontaneous precipitation of certain metals including palladium complex ion, by non-spontaneous precipitation of metals including platinum complex ions, or by metallic gold from hexachloroaurate compounds diffused in bacterial cellulose.
- 10. Inventions V and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, different functions, or different effects, for example, the first method is for impregnating bacterial cellulose with a metal or to deposit metal in bacterial cellulose while the second method is for forming a fuel cell which is a device for generating power.
- 11. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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12. Because these inventions are distinct for the reasons given above and the search required

for one group is not required for other groups, restriction for examination purposes as indicated

is proper.

13. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Raymond Alejandro whose telephone number is (703) 306-3326.

The examiner can normally be reached on Monday-Thursday (8:30 am - 7:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Patrick J. Ryan can be reached on (703) 308-2383. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 872-9310 for regular

communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

Raymond Alejandro

Examiner

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Patrick Ryan Supervisory Patent Examiner Page 6

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